

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A dispensing nozzle, comprising:
a substantially flexible body, the body having a first end configured to couple to a fluid source, a second end configured to dispense fluid, and a wall having an inner portion and an outer portion; and
an interior cavity defined by the inner portion of the wall, the interior cavity configured to allow at least a portion of the interior cavity to decrease in diameter in response to a pressure change. change partially or completely within the wall.
2. (Previously Presented) The nozzle of Claim 1, wherein the substantially flexible body includes a plurality of capillaries, the capillaries configured to couple to a pressure control source.
3. (Previously Presented) The nozzle of Claim 2, wherein the capillaries extend longitudinally along a substantial portion of the body.
4. (Withdrawn) The nozzle of Claim 2, wherein the capillaries extend annularly along a portion of the body.
5. (Withdrawn) The nozzle of Claim 2, wherein the capillaries extend helically along a portion of the body.
6. (Previously Presented) The nozzle of Claims 2, wherein the fluid source is selected from the group including a developer solution or de-ionized water.

7. (Withdrawn) The nozzle of Claim 1, wherein the substantially flexible body includes an inflatable bladder disposed about a portion of the body, the bladder configured to couple to a pressure control source.
8. (Withdrawn) The nozzle of Claim 7, wherein the inflatable bladder extends along a substantial portion of the body.
9. (Withdrawn) The nozzle of Claim 7, wherein a substantially inflexible sleeve surrounds the inflatable bladder to prevent radial expansion of the bladder.
10. (Withdrawn) The nozzle of Claims 7, wherein the fluid source is selected from the group including a developer solution or de-ionized water.
11. (Previously Presented) The nozzle of Claim 1, wherein the pressure change is caused by a pump.
12. (Currently Amended) A photolithography system, comprising:
 - a photoresist applicator;
 - an exposure source coupled to the photoresist applicator;
 - a nozzle carrier coupled to the photoresist applicator; and
 - a dispensing nozzle coupled to the nozzle carrier, the dispensing nozzle comprising:
 - a substantially flexible body, the body having a first end configured to couple to a fluid source, a second end configured to dispense fluid, and an interior cavity, the interior cavity configured to allow at least a portion of the interior cavity to decrease in diameter in response to a pressure change.
13. (Previously Presented) The system of Claim 12, wherein the substantially flexible body includes a plurality of capillaries, the capillaries configured to couple to a pressure control source.

14. (Previously Presented) The system of Claim 13, wherein the capillaries extend longitudinally along a substantial portion of the body.

15. (Previously Presented) The system of Claim 13, wherein the capillaries extend annularly along a portion of the body.

16. (Previously Presented) The system of Claim 13, wherein the capillaries extend helically along a portion of the body.

17. (Previously Presented) The nozzle of Claims 13, wherein the fluid source is selected from the group including a developer solution or de-ionized water.

18. (Previously Presented) The system of Claim 12, wherein the substantially flexible body includes an inflatable bladder disposed about a portion of the body, the bladder configured to couple to a pressure control source.

19. (Previously Presented) The system of Claim 18, wherein the inflatable bladder extends along a substantial portion of the body.

20. The system of Claim 18, wherein a substantially inflexible sleeve surrounds the inflatable bladder to prevent radial expansion of the bladder.

21. (Previously Presented) The nozzle of Claims 18, wherein the fluid source is selected from the group including a developer solution or de-ionized water.

22. (Previously Presented) The nozzle of Claim 12, wherein the pressure change is caused by a pump.

23. (Currently Amended) A method for dispensing fluid in a photolithography process, comprising:

providing a nozzle having:

a substantially flexible body, the body having a first end configured to couple to a fluid source, a second end configured to dispense the fluid, and a wall having an inner portion and an outer portion; and
an interior cavity defined by the inner portion of wall, the interior cavity
configured to allow at least a portion of the interior cavity to decrease in diameter
in response to a pressure change; change partially or completely within the wall;
coupling the first end to a fluid source; source having a fluid selected from a group
consisting of a photoresist, a developer solution, a rinse solution, and water; and
decreasing the diameter of a portion of the interior cavity at the second end by changing
the pressure; pressure to dispense the selected fluid.

24. (Previously Presented) The method of Claim 23, wherein providing a nozzle having a substantially flexible body includes a plurality of capillaries configured to couple to a pressure control source.

25. (Previously Presented) The method of Claim 24, wherein decreasing the second end includes decreasing the pressure in the capillaries to cause the capillaries to constrict.

26. (Withdrawn) The method of Claim 23, wherein providing a nozzle having a substantially flexible body includes an inflatable bladder disposed about a portion of the body, the bladder configured to couple to a pressure control source.

27. (Withdrawn) The method of Claim 24, wherein decreasing the second end includes inflating the bladder.